



5934.ST25.txt
SEQUENCE LISTING

<110> Dunham, Steven
Olson, Eric

<120> A MODEL SYSTEM FOR DRUG DELIVERY

<130> 5934

<140> 09/719867

<141> 2000-12-28

<150> 60/105965

<151> 1998-10-28

<160> 14

<170> PatentIn version 3.3

<210> 1

<211> 16

<212> PRT

<213> Neisseria gonorrhoeae

<220>

<221> VARIANT

<222> (3)..(3)

<223> can also be E

<220>

<221> VARIANT

<222> (4)..(4)

<223> can also be F or C

<220>

<221> VARIANT

<222> (8)..(8)

<223> Can also be G,N,H,E or A

<400> 1

His Gly Asp Ser Ala Val Tyr Asp Thr Ile Val Arg Met Ala Gln Asn
1 5 10 15

<210> 2

<211> 173

<212> PRT

<213> Neisseria gonorrhoeae

<220>

<221> VARIANT

<222> (62)..(62)

<223> Can also be K

<220>

<221> VARIANT

<222> (63)..(63)

<223> Can also be R or Q

<220>

<221> VARIANT
 <222> (65)..(65)
 <223> Can also be H

<220>
 <221> VARIANT
 <222> (80)..(80)
 <223> Can also be A or G

<220>
 <221> VARIANT
 <222> (90)..(90)
 <223> Can also be N or E

<220>
 <221> VARIANT
 <222> (91)..(91)
 <223> Can also be F,Y,A or C

<220>
 <221> VARIANT
 <222> (92)..(92)
 <223> Can also be P

<220>
 <221> VARIANT
 <222> (95)..(95)
 <223> Can also be N, A, V, Y, H or G

<220>
 <221> VARIANT
 <222> (114)..(114)
 <223> Can also be H

<220>
 <221> VARIANT
 <222> (135)..(135)
 <223> Can also be V

<220>
 <221> VARIANT
 <222> (161)..(161)
 <223> Can also be Q, G or K

<400> 2

Met Thr Asp Ala Thr Ile Arg His Asp His Lys Phe Ala Leu Glu Thr
 1 5 10 15

Leu Pro Val Ser Leu Glu Asp Glu Met Arg Lys Ser Tyr Leu Asp Thr
 20 25 30

Ala Met Ser Val Ile Val Arg Arg Ala Leu Pro Asp Val Arg Asp Gly
 35 40 45

Leu Lys Pro Val His Arg Arg Val Leu Tyr Ala Met His Glu Leu Lys
 50 55 60

Asn Asn Trp Asn Ala Ala Tyr Lys Lys Ser Ala Arg Ile Val Gly Asp
 Page 2

5934.ST25.txt
75

65 70 75 80

Val Ile Gly Lys Tyr His Pro His Gly Asp Ser Ala Val Tyr Asp Thr
85 90 95

Ile Val Arg Met Ala Gln Asn Phe Ala Met Arg Tyr Val Leu Ile Asp
100 105 110

Gly Gln Gly Asn Phe Gly Ser Val Asp Gly Leu Ala Ala Ala Ala Met
115 120 125

Arg Tyr Thr Glu Ile Arg Met Ala Lys Ile Ser His Glu Met Leu Ala
130 135 140

Asp Ile Glu Glu Glu Thr Val Asn Phe Gly Pro Asn Tyr Asp Gly Ser
145 150 155 160

Glu His Glu Pro Leu Val Leu Pro Thr Arg Phe Pro Thr
165 170

```
<210> 3
<211> 261
<212> PRT
<213> Neisseria gonorrhoeae
```

```
<220>
<221> VARIANT
<222> (15)..(15)
<223> Can also be v
```

```
<220>
<221> VARIANT
<222> (20)..(20)
<223> Can also be T
```

```
<220>
<221> VARIANT
<222> (23)..(23)
<223> Can also be s
```

```
<220>
<221> VARIANT
<222> (25)..(25)
<223> Can also be v
```

```
<220>
<221> VARIANT
<222> (51)..(51)
<223> Can also be T
```

```
<220>
<221> VARIANT
<222> (91)..(91)
<223> Can also be T
```

<220>
<221> VARIANT
<222> (93)..(93)
<223> Can also be C, S or V

<220>
<221> VARIANT
<222> (95)..(95)
<223> Can also be V

<220>
<221> VARIANT
<222> (99)..(99)
<223> Can also be G

<220>
<221> VARIANT
<222> (104)..(104)
<223> Can also be L

<220>
<221> VARIANT
<222> (105)..(105)
<223> Can also be H

<220>
<221> VARIANT
<222> (144)..(144)
<223> Can also be V

<220>
<221> VARIANT
<222> (147)..(147)
<223> Can also be H

<220>
<221> VARIANT
<222> (159)..(159)
<223> Can also be A

<220>
<221> VARIANT
<222> (160)..(160)
<223> Can also be I

<220>
<221> VARIANT
<222> (162)..(162)
<223> Can also be V

<220>
<221> VARIANT
<222> (193)..(193)
<223> Can also be N or V

<220>
<221> VARIANT
<222> (195)..(195)
<223> Can also be S

<220>
<221> VARIANT
<222> (201)..(201)

<223> Can also be V

<220>

<221> VARIANT

<222> (203)..(203)

<223> Can also be Y or V

<220>

<221> VARIANT

<222> (204)..(204)

<223> Can also be S, L, I or V

<220>

<221> VARIANT

<222> (213)..(213)

<223> Can also be T or V

<220>

<221> VARIANT

<222> (252)..(252)

<223> Can also be N

<400> 3

Met Gly Phe Leu Gln Gly Lys Lys Ile Leu Ile Thr Gly Met Ile Ser
1 5 10 15

Glu Arg Ser Ile Ala Tyr Gly Ile Ala Lys Ala Cys Arg Glu Gln Gly
20 25 30

Ala Glu Leu Ala Phe Thr Tyr Val Val Asp Lys Leu Glu Glu Arg Val
35 40 45

Arg Lys Met Ala Ala Glu Leu Asp Ser Glu Leu Val Phe Arg Cys Asp
50 55 60

Val Ala Ser Asp Asp Glu Ile Asn Gln Val Phe Ala Asp Leu Gly Lys
65 70 75 80

His Trp Asp Gly Leu Asp Gly Leu Val His Ser Ile Gly Phe Ala Pro
85 90 95

Lys Glu Ala Leu Ser Gly Asp Phe Leu Asp Ser Ile Ser Arg Glu Ala
100 105 110

Phe Asn Thr Ala His Glu Ile Ser Ala Tyr Ser Leu Pro Ala Leu Ala
115 120 125

Lys Ala Ala Arg Pro Met Met Arg Gly Arg Asn Ser Ala Ile Val Ala
130 135 140

Leu Ser Tyr Leu Gly Ala Val Arg Ala Ile Pro Asn Tyr Asn Val Met
145 150 155 160

5934.ST25.txt

Gly Met Ala Lys Ala Ser Leu Glu Ala Gly Ile Arg Phe Thr Ala Ala
165 170 175

Cys Leu Gly Lys Glu Gly Ile Arg Cys Asn Gly Ile Ser Ala Gly Pro
180 185 190

Ile Lys Thr Leu Ala Ala Ser Gly Ile Ala Asp Phe Gly Lys Leu Leu
195 200 205

Gly His Val Ala Ala His Asn Pro Leu Arg Arg Asn Val Thr Ile Glu
210 215 220

Glu Val Gly Asn Thr Ala Ala Phe Leu Leu Ser Asp Leu Ser Ser Gly
225 230 235 240

Ile Thr Gly Glu Ile Thr Tyr Val Asp Gly Gly Tyr Ser Ile Asn Ala
245 250 255

Leu Ser Thr Glu Gly
260

<210> 4
<211> 28
<212> DNA
<213> Neisseria gonorrhoeae

<400> 4
gtccgccatg gcaggtttct cgacaaac 28

<210> 5
<211> 45
<212> DNA
<213> Neisseria gonorrhoeae

<400> 5
catacggacg atggtgccgt aaactgcgaa atcgccgtgg ggggtg 45

<210> 6
<211> 45
<212> DNA
<213> Neisseria gonorrhoeae

<400> 6
cacccccacg gcgatttcgc agtttacggc accatcgtcc gtatg 45

<210> 7
<211> 27
<212> DNA
<213> Neisseria gonorrhoeae

<400> 7
caacttgaat tcgttgacct gataggg 27

<210> 8
 <211> 28
 <212> DNA
 <213> Neisseria gonorrhoeae

<400> 8
 gtccgccatg gcaggtttct cgacaaac 28

<210> 9
 <211> 28
 <212> DNA
 <213> Neisseria gonorrhoeae

<400> 9
 cccaagcttg atggtgtcgg tgaggttg 28

<210> 10
 <211> 53
 <212> DNA
 <213> Neisseria gonorrhoeae

<400> 10
 cacggcgatt ccgcagttta cgacacaatc gtccgtatgg cgcaaaattt cgc 53

<210> 11
 <211> 18
 <212> DNA
 <213> Neisseria gonorrhoeae

<400> 11
 tccatcccga caaattcg 18

<210> 12
 <211> 20
 <212> DNA
 <213> Neisseria gonorrhoeae

<400> 12
 ttgcggtagt gttcgaccag 20

<210> 13
 <211> 35
 <212> DNA
 <213> Neisseria gonorrhoeae

<400> 13
 ggaattccat atgcgtattt gaaacgtcca atgcc 35

<210> 14
 <211> 21
 <212> DNA
 <213> Neisseria gonorrhoeae

<400> 14
 gcacctgcag caatgcggta c 21

5934.ST25.txt